



SHEAR IN BOLTS $\frac{9.81 \times 100 \text{ kg}}{4} = 245.25 \text{ N}$

MAX BOLT TENSION = $200 \times 100 \times 9.81 = 2\mu l_1^2 + 2\mu l_2^2$

ASSUME $l_1 = 25 \text{ mm}$

$\therefore l_2 = 125 \text{ mm}$

$\mu = 6.037$

\therefore Max Tension in Bolts = $754 \text{ N} = 6.037 \times 125 \text{ mm}$

μ = Load on Bolt due to applied moment at a UNIT DISTANCE FROM edge O.